

CAS ONLINE PRINTOUT

*By Barts*

=> d his

(FILE 'HOME' ENTERED AT 10:30:50 ON 09 AUG 2007)

FILE 'REGISTRY' ENTERED AT 10:30:57 ON 09 AUG 2007  
E ISONONYL BENZOATE/CN

L1 1 S E3

FILE 'CAPLUS' ENTERED AT 10:31:32 ON 09 AUG 2007  
L2 7 S L1

FILE 'BEILSTEIN' ENTERED AT 10:32:30 ON 09 AUG 2007  
L3 0 S L1

FILE 'CAPLUS' ENTERED AT 10:35:06 ON 09 AUG 2007  
L4 STRUCTURE uploaded  
S L4

FILE 'REGISTRY' ENTERED AT 10:35:25 ON 09 AUG 2007  
L5 0 S L4 CSS

FILE 'CAPLUS' ENTERED AT 10:35:26 ON 09 AUG 2007  
L6 0 S L5 CSS  
S L4

FILE 'REGISTRY' ENTERED AT 10:35:41 ON 09 AUG 2007  
L7 17 S L4 CSS FUL

FILE 'CAPLUS' ENTERED AT 10:36:13 ON 09 AUG 2007  
L8 19 S L7 CSS FUL

FILE 'REGISTRY' ENTERED AT 10:36:27 ON 09 AUG 2007  
L9 0 S L4 CSS

L10 SCREEN 1929 OR 2021 OR 2026 OR 2016 OR 2006 OR 1992  
L11 STRUCTURE uploaded  
L12 QUE L11 NOT L10  
L13 13 S L12 CSS  
L14 211 S L12 CSS FUL  
L15 SCREEN 1929 OR 2021 OR 2026 OR 2016 OR 2006 OR 1992 OR 97  
L16 STRUCTURE uploaded  
L17 QUE L16 NOT L15  
L18 134 SEARCH L17 CSS SUB=L14 FULL  
L19 SCREEN 1929 OR 2021 OR 2026 OR 2016 OR 2006 OR 1992 OR 97  
L20 STRUCTURE uploaded  
L21 QUE L20 NOT L19  
L22 51 SEARCH L21 CSS SUB=L18 FULL

FILE 'CAPLUS' ENTERED AT 10:41:35 ON 09 AUG 2007  
L23 407 S L22  
L24 407 S L22

FILE 'CAPLUS' ENTERED AT 10:41:56 ON 09 AUG 2007  
L25 407 S L22

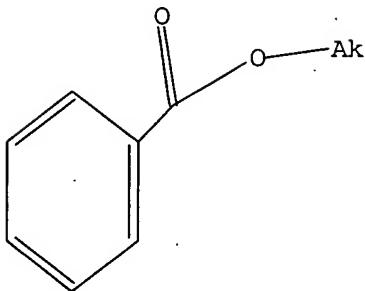
FILE 'USPATFULL' ENTERED AT 10:42:07 ON 09 AUG 2007  
L26 37 S L22

=> d 120

L20 HAS NO ANSWERS

L20 STR

CAS ONLINE PRINTOUT



Structure attributes must be viewed using STN Express query preparation.

=> d bib abs hitstr 126 1-37

L26 ANSWER 1 OF 37 USPATFULL on STN

AN 2007:211270 USPATFULL

TI Substituted triazole derivatives as oxytocin antagonists

IN Brown, Alan Daniel, Sandwich, UNITED KINGDOM

Calabrese, Andrew Antony, Sandwich, UNITED KINGDOM

Ellis, David, Sandwich, UNITED KINGDOM

Watson, Lesa, Sandwich, UNITED KINGDOM

PI US 2007185078 A1 20070809

AI US 2005-570199 A1 20050527 (11)

WO 2005-IB1541 20050527

20061207 PCT 371 date

PRAI GB 2004-12874 20040609

US 2004-588170P 20040714 (60)

DT Utility

FS APPLICATION

LREP PFIZER INC., PATENT DEPARTMENT, MS8260-1611, EASTERN POINT ROAD, GROTON, CT, 06340, US

CLMN Number of Claims: 18

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 2123

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to compounds of formula (I) ##STR1##

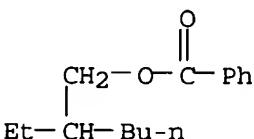
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7P, 2-Ethylhexyl benzoate

(plasticizer; benzoic acid isononyl ester as a plasticizer for homopolymers, copolymers and terpolymers of unsatd. esters)

RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 2 OF 37 USPATFULL on STN

AN 2007:104589 USPATFULL

TI Method of manufacturing polystyrene foam with polymer processing

CAS ONLINE PRINTOUT

additives

IN Delaviz, Yadollah, Lewis Center, OH, UNITED STATES  
Patel, Bharat, Dublin, OH, UNITED STATES  
Polasky, Mark, Mogadore, OH, UNITED STATES  
Breindel, Raymond M., Hartville, OH, UNITED STATES  
Loh, Roland R., Stow, OH, UNITED STATES  
Weekley, Mitchell Z., Tallmadge, OH, UNITED STATES

PI US 2007090552 A1 20070426

AI US 2005-257301 A1 20051024 (11)

DT Utility

FS APPLICATION

LREP OWENS CORNING, 2790 COLUMBUS ROAD, GRANVILLE, OH, 43023, US

CLMN Number of Claims: 28

ECL Exemplary Claim: 1

DRWN 21 Drawing Page(s)

LN.CNT 747

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a method for making polystyrene foam which utilizes one or more atmospheric gases, particularly combinations of HFCs and CO<sub>2</sub>, as the blowing system in combination with a polymer processing aid (PPA), typically an ester that is relatively non-volatile at the extrusion temperature range. The blowing system and the PPA may both be introduced into the molten thermoplastic polystyrene resin or the PPA may be incorporated in the solid source polystyrene resins. The resulting foams will typically exhibit improved dimensional stability at ambient temperatures.

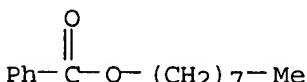
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 94-50-8, Octyl benzoate

(Dena PF 681; polystyrene foam extruded with adipate processing additives and non-ozone depleting blowing agents)

RN 94-50-8 USPATFULL

CN Benzoic acid, octyl ester (CA INDEX NAME)



L26 ANSWER 3 OF 37 USPATFULL on STN

AN 2007:43225 USPATFULL

TI Polyvinyl chloride compositions

IN Olsen, David Justin, Kingsport, TN, UNITED STATES  
Stimpson, Martin James, The Cedars Kent, UNITED KINGDOM

PI US 2007037926 A1 20070215

AI US 2005-202543 A1 20050812 (11)

DT Utility

FS APPLICATION

LREP Michael J. Blake, Eastman Chemical Company, P.O. Box 511, Kingsport, TN, 37662-5075, US

CLMN Number of Claims: 12

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 611

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A polyvinyl chloride composition having polyvinyl chloride resin and a plasticizer ester selected from di-butyl terephthalate, di-isobutyl terephthalate, or mixtures thereof.

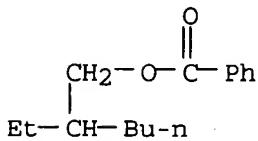
CAS ONLINE PRINTOUT

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, 2-Ethylhexyl benzoate  
(plasticizer; polyvinyl chloride compns.)

RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 4 OF 37 USPATFULL on STN

AN 2007:26330 USPATFULL

TI Process for creating fabrics with branched fibrils

IN Myers, Kasey R., Spartanburg, SC, UNITED STATES

Love, Franklin Sadler III, Columbus, NC, UNITED STATES

Vogt, Kirkland W., Simpsonville, SC, UNITED STATES

PI US 2007022587 A1 20070201

AI US 2006-540054 A1 20060929 (11)

RLI Division of Ser. No. US 2005-40211, filed on 21 Jan 2005, ABANDONED

DT Utility

FS APPLICATION

LREP Legal Department (M-495), P.O. Box 1926, Spartanburg, SC, 29304, US

CLMN Number of Claims: 17

ECL Exemplary Claim: 1

DRWN 4 Drawing Page(s)

LN.CNT 426

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

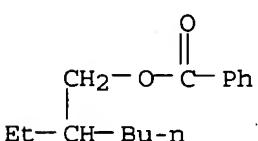
AB The present process involves applying a plasticizer- or solvent-containing solution to a subject fabric, preferably under heated conditions, and then mechanically abrading the treated fabric. The process results in the rearrangement of the fabric structure, as a plurality of branched fibrils are created along the length of the yarn filaments. Thus, the molecular weight of the fabric's yarns and, therefore, the strength of the polymer chains are maintained. Fabrics made from this process, which exhibit a silk-like hand that results from the presence of multiple integral fibrils and branched fibrils, are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, Ethyl hexyl benzoate  
(plasticizer; process for creating fabrics with branched fibrils and such fibrillated fabrics)

RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 5 OF 37 USPATFULL on STN

AN 2007:23414 USPATFULL

CAS ONLINE PRINTOUT

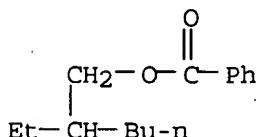
TI Process for creating fabrics with branched fibrils and such fibrillated fabrics  
IN Myers, Kasey R., Spartanburg, SC, UNITED STATES  
Love, Franklin Sadler III, Columbus, NC, UNITED STATES  
Vogt, Kirkland W., Simpsonville, SC, UNITED STATES  
PI US 2007020455 A1 20070125  
AI US 2006-540053 A1 20060929 (11)  
RLI Continuation of Ser. No. US 2005-40211, filed on 21 Jan 2005, ABANDONED  
DT Utility  
FS APPLICATION  
LREP Legal Department (M-495), P.O. Box 1926, Spartanburg, SC, 29304, US  
CLMN Number of Claims: 8  
ECL Exemplary Claim: 1-25  
DRWN 4 Drawing Page(s)  
LN.CNT 387

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present process involves applying a plasticizer- or solvent-containing solution to a subject fabric, preferably under heated conditions, and then mechanically abrading the treated fabric. The process results in the rearrangement of the fabric structure, as a plurality of branched fibrils are created along the length of the yarn filaments. Thus, the molecular weight of the fabric's yarns and, therefore, the strength of the polymer chains are maintained. Fabrics made from this process, which exhibit a silk-like hand that results from the presence of multiple integral fibrils and branched fibrils, are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, Ethyl hexyl benzoate  
(plasticizer; process for creating fabrics with branched fibrils and such fibrillated fabrics)  
RN 5444-75-7 USPATFULL  
CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 6 OF 37 USPATFULL on STN  
AN 2007:12184 USPATFULL  
TI Use of isonyl benzoate as a film-forming agent  
IN Grass, Michael, Haltern am See, GERMANY, FEDERAL REPUBLIC OF  
Koch, Jurgen, Haltern am See, GERMANY, FEDERAL REPUBLIC OF  
PA OXENO OLEFINCHEMIE GMBH, Marl, GERMANY, FEDERAL REPUBLIC OF, D-45772  
(non-U.S. corporation)  
PI US 2007010599 A1 20070111  
AI US 2004-570199 A1 20040716 (10)  
WO 2004-EP51523 20040716  
20060302 PCT 371 date  
PRAI DE 2003-10341428 20030909  
DT Utility  
FS APPLICATION  
LREP C. IRVIN MCCLELLAND, OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.,  
1940 DUKE STREET, ALEXANDRIA, VA, 22314, US  
CLMN Number of Claims: 10  
ECL Exemplary Claim: 1

CAS ONLINE PRINTOUT

DRWN No Drawings

LN.CNT 779

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the use of isononyl esters of benzoic acid as film-forming agents in compositions such as emulsion paints, mortars, plasters, adhesives, and varnishes, and also to compositions which comprise film-forming polymers and the isononyl ester of benzoic acid.

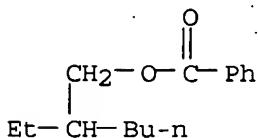
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7P, 2-Ethylhexyl benzoate

(plasticizer; benzoic acid isononyl ester as a plasticizer for homopolymers, copolymers and terpolymers of unsatd. esters)

RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 7 OF 37 USPATFULL on STN

AN 2006:294432 USPATFULL

TI ANTI-ODOR COMPOSITIONS AND THERAPEUTIC USE

IN Yu, Ruey J., Chalfont, PA, UNITED STATES

Van Scott, Eugene J., Abington, PA, UNITED STATES

PI US 2006251597 A1 20061109

AI US 2006-381374 A1 20060503 (11)

PRAI US 2005-677364P 20050504 (60)

DT Utility

FS APPLICATION

LREP HUNTON & WILLIAMS LLP, INTELLECTUAL PROPERTY DEPARTMENT, 1900 K STREET, N.W., SUITE 1200, WASHINGTON, DC, 20006-1109, US

CLMN Number of Claims: 29

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1485

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This application discloses a composition comprising a malodor compound and an anti-odor ingredient effective for reducing the presence or production of malodor. The composition may be topically applied to a subject and is useful for cosmetic conditions, pharmaceutical indications, or other objectives.

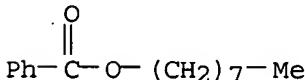
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 94-50-8, Octyl benzoate

(therapeutic and cosmetic use of anti-odor compns.)

RN 94-50-8 USPATFULL

CN Benzoic acid, octyl ester (CA INDEX NAME)



CAS ONLINE PRINTOUT

L26 ANSWER 8 OF 37 USPATFULL on STN  
 AN 2006:196394 USPATFULL  
 TI Method for preparing alicyclic carboxylic acids and their esters  
 IN Grass, Michael, Haltern am See, GERMANY, FEDERAL REPUBLIC OF  
     Reeken, Burkhard, Dorsten, GERMANY, FEDERAL REPUBLIC OF  
     Tuchlenski, Axel, Weinheim, GERMANY, FEDERAL REPUBLIC OF  
     Kaizik, Alfred, Marl, GERMANY, FEDERAL REPUBLIC OF  
     Buschken, Wilfried, Haltern am See, GERMANY, FEDERAL REPUBLIC OF  
 PA OXENO OLEFINCHEMIE GMBH, Marl, GERMANY, FEDERAL REPUBLIC OF (non-U.S.  
     corporation)

PI US 2006167151 A1 20060727  
 AI US 2006-322349 A1 20060103 (11)

PRAI DE 2004-10200406363720041231

DT Utility

FS APPLICATION

LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,  
     ALEXANDRIA, VA, 22314, US

CLMN Number of Claims: 20

ECL Exemplary Claim: 1

DRWN 1 Drawing Page(s)

LN.CNT 854

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

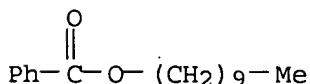
AB A method for the continuous preparation of an alicyclic carboxylic acid  
     or an ester of the alicyclic carboxylic acid. A plastic which  
     incorporates the alicyclic carboxylic acid or an ester of the alicyclic  
     carboxylic acid. An article made of a plastic which incorporates the  
     alicyclic carboxylic acid or an ester of the alicyclic carboxylic acid.  
     A liquid which incorporates the alicyclic carboxylic acid or an ester of  
     the alicyclic carboxylic acid.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 36685-97-9, Decyl benzoate  
     (catalytic three-stage hydrogenation process for the preparation of  
     alicyclic carboxylic acids or derivs. from their corresponding aromatic  
     carboxylic acids or their derivs.)

RN 36685-97-9 USPATFULL

CN Benzoic acid, decyl ester (CA INDEX NAME)



L26 ANSWER 9 OF 37 USPATFULL on STN

AN 2006:195822 USPATFULL  
 TI Process for creating fabrics with branched fibrils and such fibrillated  
     fabrics

IN Myers, Kasey R., Spartanburg, SC, UNITED STATES  
     Love, Franklin Sadler III, Columbus, NC, UNITED STATES  
     Vogt, Kirkland W., Simpsonville, SC, UNITED STATES

PI US 2006166578 A1 20060727

AI US 2005-40211 A1 20050121 (11)

DT Utility

FS APPLICATION

LREP Charlotte C. Wilson, Legal Department, M-495, 920 Milliken Road, PO Box  
     1926, Spartanburg, SC, 29304, US

CLMN Number of Claims: 25

ECL Exemplary Claim: 1

DRWN 4 Drawing Page(s)

CAS ONLINE PRINTOUT

LN.CNT 448

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present process involves applying a plasticizer- or solvent-containing solution to a subject fabric, preferably under heated conditions, and then mechanically abrading the treated fabric. The process results in the rearrangement of the fabric structure, as a plurality of branched fibrils are created along the length of the yarn filaments. Thus, the molecular weight of the fabric's yarns and, therefore, the strength of the polymer chains are maintained. Fabrics made from this process, which exhibit a silk-like hand that results from the presence of multiple integral fibrils and branched fibrils, are also provided.

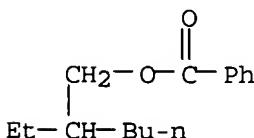
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, Ethyl hexyl benzoate

(plasticizer; process for creating fabrics with branched fibrils and such fibrillated fabrics)

RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 10 OF 37 USPATFULL on STN

AN 2006:189575 USPATFULL

TI Method for continuous catalytic hydrogenation

IN Grass, Michael, Haltern am See, GERMANY, FEDERAL REPUBLIC OF  
Reeken, Burkhard, Dorsten, GERMANY, FEDERAL REPUBLIC OF  
Tuchlenski, Axel, Weinheim, GERMANY, FEDERAL REPUBLIC OF

Kaizik, Alfred, Marl, GERMANY, FEDERAL REPUBLIC OF

PA DEGUSSA AG, Duesseldorf, GERMANY, FEDERAL REPUBLIC OF, 40474 (non-U.S.  
corporation)

OXENO OLEFINCHEMIE GMBH, Marl, GERMANY, FEDERAL REPUBLIC OF, 45772  
(non-U.S. corporation)

PI US 2006161017 A1 20060720

AI US 2005-320409 A1 20051229 (11)

PRAI DE 2004-10200406367320041231

DT Utility

FS APPLICATION

LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,  
ALEXANDRIA, VA, 22314, US

CLMN Number of Claims: 22

ECL Exemplary Claim: 1

DRWN 1 Drawing Page(s)

LN.CNT 1010

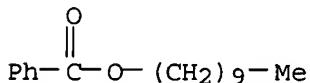
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the preparation of alicyclic carboxylic acids or their derivatives by selective hydrogenation of the corresponding aromatic carboxylic acid (derivatives) in at least two series-connected reactors, at least one reactor being operated in loop operating mode. The catalyst volumes in the method are set in such a manner that the catalyst volume required, based on the conversion rate, is as low as possible.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

CAS ONLINE PRINTOUT

IT 36685-97-9, Decyl benzoate  
(process for the continuous catalytic hydrogenation of aromatic carboxylic acids and their derivs. into alicyclic carboxylic acids or their derivs.)  
RN 36685-97-9 USPATFULL  
CN Benzoic acid, decyl ester (CA INDEX NAME)



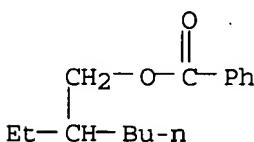
L26 ANSWER 11 OF 37 USPATFULL on STN  
AN 2006:93293 USPATFULL  
TI Composition for cleaning and degreasing, system for using the composition, and methods of forming and using the composition  
IN Zaki, Nael N., Peoria, AZ, UNITED STATES  
PI US 2006079423 A1 20060413  
AI US 2005-248782 A1 20051012 (11)  
PRAI US 2004-617930P 20041012 (60)  
DT Utility  
FS APPLICATION  
LREP SNELL & WILMER, ONE ARIZONA CENTER, 400 EAST VAN BUREN, PHOENIX, AZ, 850040001, US  
CLMN Number of Claims: 23  
ECL Exemplary Claim: 1  
DRWN 3 Drawing Page(s)  
LN.CNT 465

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A composition for cleaning and degreasing substrates, methods of forming and using the composition, and a system and method for recycling the composition are provided. The composition includes a 2-ethylhexyl ester and may also include co-solvents, diluents, surfactants, and adjuvants.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, 2-Ethylhexyl benzoate  
(cleaning and degreasing composition)  
RN 5444-75-7 USPATFULL  
CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 12 OF 37 USPATFULL on STN  
AN 2005:331474 USPATFULL  
TI High activity and good hydrogen response Ziegler-Natta polyethylene catalyst  
IN Zhu, Zhidong, Houston, TX, UNITED STATES  
Chang, Main, Houston, TX, UNITED STATES  
Aarons, Christopher J., Houston, TX, UNITED STATES  
PI US 2005288460 A1 20051229  
US 7153803 B2 20061226  
AI US 2004-879572 A1 20040628 (10)

CAS ONLINE PRINTOUT

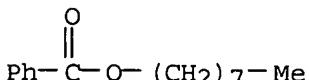
DT Utility  
FS APPLICATION  
LREP ENGELHARD CORPORATION, 101 WOOD AVENUE, ISELIN, NJ, 08830, US  
CLMN Number of Claims: 22  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Page(s)  
LN.CNT 992

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are catalyst systems and methods of making the catalyst systems/supports for the polymerization of polyethylene containing a solid titanium catalyst component containing a titanium compound and a support made from a magnesium compound, an alkyl silicate, and a monoester. The catalyst system may further contain an organoaluminum compound. Also disclosed are methods of making various types of polyethylene involving polymerizing ethylene in the presence of hydrogen and a catalyst system containing a support made from a magnesium compound, an alkyl silicate and a monoester.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 94-50-8, Octyl benzoate  
(catalyst support; manufacture and use of high-activity and good hydrogen response Ziegler-Natta polyethylene catalyst)  
RN 94-50-8 USPATFULL  
CN Benzoic acid, octyl ester (CA INDEX NAME)



L26 ANSWER 13 OF 37 USPATFULL on STN  
AN 2005:208455 USPATFULL  
TI External preparations for skin  
IN Oguchi, Nozomi, Kanagawa, JAPAN  
Miyahara, Reiji, Kanagawa, JAPAN  
Kakoki, Hiroyuki, Kanagawa, JAPAN  
Omura, Takayuki, Kanagawa, JAPAN  
PI US 2005180931 A1 20050818  
AI US 2003-513823 A1 20030307 (10)  
WO 2003-JP5701 20030307  
PRAI JP 2002-134438 20020509  
JP 2003-2002144565 20020520  
DT Utility  
FS APPLICATION  
LREP TOWNSEND & BANTA, c/o PORTFOLIO IP, PO BOX 52050, MINNEAPOLIS, MN, 55402, US  
CLMN Number of Claims: 12  
ECL Exemplary Claim: 1  
DRWN 3 Drawing Page(s)  
LN.CNT 1538

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is a skin treatment composition that characteristically contains an alkyl benzoate represented by the following general formula (1). This provides a skin treatment composition that gives a refreshing sensation at the time of application and can contain drugs and ultraviolet absorbents in a stable manner. Also, the present invention is a sunblock water-in-oil type emulsified cosmetic characteristically comprising an ester bond product of polyhydroxystearic acid represented by the following general formulas

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(2) or (3), alkyl benzoate represented by the following general formula (1), and an ultraviolet absorbent. This provides a sunblock cosmetic consisting of a water-in-oil type emulsified composition that can contain an ultraviolet absorbent in a stable manner and exhibits a superior usability. ##STR1## (In this formula, R denotes a branched or straight chain alkyl group having 8-15 carbon atoms.) ##STR2## (In this formula, R.<sup>1</sup> and R.<sup>2</sup> denote, independently of each other, a hydrogen atom or a lower alkyl group having 1-6 carbon atoms, a+b denotes an integer 1-30, and m denotes an integer 10-200.) ##STR3## (In this formula, R.<sup>1</sup> and R.<sup>2</sup> denote, independently of each other, a hydrogen atom or a lower alkyl group having 1-6 carbon atoms, a+b denotes an integer 1-30, and n denotes an integer 1-30.)

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

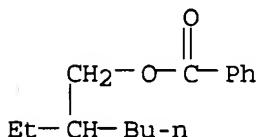
IT 5444-75-7P, 2-Ethylhexyl benzoate 29376-81-6P

94444-18-5P, 3,7-Dimethyloctyl benzoate

(skin preps. containing C8-10 alkyl benzoates as good solvents for slightly-soluble active ingredients such as UV absorbers)

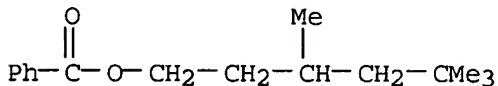
RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



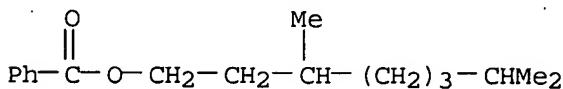
RN 29376-81-6 USPATFULL

CN 1-Hexanol, 3,5,5-trimethyl-, benzoate (8CI, 9CI) (CA INDEX NAME)



RN 94444-18-5 USPATFULL

CN 1-Octanol, 3,7-dimethyl-, benzoate (9CI) (CA INDEX NAME)



L26 ANSWER 14 OF 37 USPATFULL on STN

AN 2005:22817 USPATFULL

TI Cosmetic films

IN Amato, Steven W., North Plainfield, NJ, UNITED STATES

Hoyte, Wayne M., Parlin, NJ, UNITED STATES

Naranjo, Alexander, Mine Hill, NJ, UNITED STATES

Patel, Shirish, Guttenberg, NJ, UNITED STATES

Barone, Salvatore, Staten Island, NY, UNITED STATES

PA Coty Inc. (U.S. corporation)

PI US 2005019359 A1 20050127

AI US 2004-919736 A1 20040817 (10)

RLI Continuation of Ser. No. US 2002-152314, filed on 20 May 2002, PENDING

PRAI US 2001-292424P 20010521 (60)

CAS ONLINE PRINTOUT

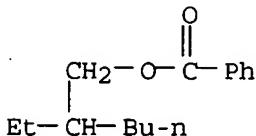
DT Utility  
FS APPLICATION  
LREP SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS,  
MN, 55402  
CLMN Number of Claims: 23  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 843

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention includes a cosmetic film. The film includes butylphthalimide isopropylphthalimide, one or more primary film forming polymers and one or more secondary film forming resins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, 2-Ethylhexyl benzoate  
(modifying plasticizer; polymer films containing butylphthalimide isopropylphthalimide plasticizer for nailpolishes)  
RN 5444-75-7 USPATFULL  
CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 15 OF 37 USPATFULL on STN  
AN 2004:239214 USPATFULL  
TI Nail enamelcompositions and methods  
IN Patil, Anjali Abhimanyu, Westfield, NJ, UNITED STATES  
Sandewicz, Robert Walter, Monroe Township, NJ, UNITED STATES  
Dullas, Warline L., East Brunswick, NJ, UNITED STATES  
Betancourt, Daniel Anthony, Edison, NJ, UNITED STATES  
Pagano, Frank Charles, Monroe Township, NJ, UNITED STATES  
Calello, Joseph Frank, Bridgewater, NJ, UNITED STATES  
PI US 2004185018 A1 20040923  
AI US 2004-770068 A1 20040202 (10)  
PRAI US 2003-444547P 20030203 (60)  
DT Utility  
FS APPLICATION  
LREP Julie Blackburn, Revlon Consumer Products Corporation, 237 Park Avenue,  
New York, NY, 10017  
CLMN Number of Claims: 60  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1020

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Nail enamel compositions containing a monoester containing at least one alkyl ether group; or an ester of benzoic acid, or a diester formed by the reaction of a dicarboxylic acid where the two carboxylic acid groups are separated by a straight or branched chain alkyl group or an aryl group, and an aliphatic or aromatic alcohol and said diester further comprising at least one alkyl ether group; or a triester formed by the reaction of aromatic tricarboxylic acid and an aliphatic or aromatic alcohol, or by the reaction of a polyol having primary hydroxyl groups with an aliphatic carboxylic acid; and a method for reducing the hardness of one or more film forming polymers in a nail enamel composition; and/or improving nail enamel wear comprising adding such

CAS ONLINE PRINTOUT

compounds to the nail enamel composition.

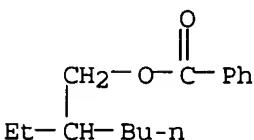
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, Ethylhexyl benzoate

(nail enamel compns. containing esters for improving hardness of  
film-forming polymers)

RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 16 OF 37 USPATFULL on STN

AN 2004:197301 USPATFULL

TI Anionic surfactants

IN Eastwood, John, Cleveland, UNITED KINGDOM

PA IMPERIAL CHEMICAL INDUSTRIES PLC, London, UNITED KINGDOM (non-U.S.  
corporation)

PI US 2004152606 A1 20040805

AI US 2003-640398 A1 20030814 (10)

RLI Continuation of Ser. No. WO 2002-GB451, filed on 1 Feb 2002, UNKNOWN

PRAI GB 2001-3724 20010215

DT Utility

FS APPLICATION

LREP PILLSBURY WINTHROP, LLP, P.O. BOX 10500, MCLEAN, VA, 22102

CLMN Number of Claims: 10

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 516

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A lubricant composition for metal forming and cutting has at least one compound of the formula (I): R<sup>sup.1</sup>-(AO)<sub>sub.n</sub>-OOC-(CH<sub>sub.2</sub>)<sub>sub.m</sub>-Ph-(R<sup>sup.2</sup>)<sub>sub.p</sub> where R<sup>sup.1</sup> is a C<sub>sub.1</sub> to C<sub>sub.15</sub> alkyl group AO is an alkyleneoxy group which may vary along the (poly) alkyleneoxy chain; n is 0 or from 1 to 100; m is 0, 1 or 2; and Ph is a phenyl group, which may be substituted with groups (R<sup>sup.2</sup>)<sub>sub.p</sub>; where each R<sup>sup.2</sup> is independently an alkyl, halogen, haloalkyl or alkoxy group; and p is 0 or from 1 to 3; The lubricant composition also includes at least one lubricant additive selected from the group consisting of an organic ester additive, a polyalkylene glycol additive, a sulphur-containing synthetic additive, a sulphur-containing oleochemical additive, a sulphonate, a phosphorus-containing additive and a chlorinated paraffin additive. Also described are a method of using the lubricant composition in metal forming and cutting applications and the use of the lubricant composition in metal forming and cutting applications. The lubricant composition may also be used in water-based compositions for such applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, 2-Ethylhexyl benzoate

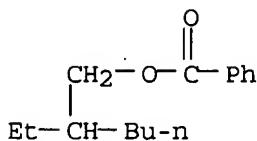
(aqueous metalworking and cutting fluids containing alkyl and  
polyoxyalkylene

esters of benzoic acid and other additives)

RN 5444-75-7 USPATFULL

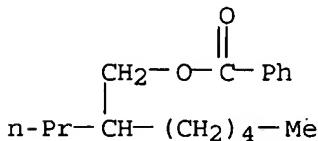
CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)

CAS ONLINE PRINTOUT

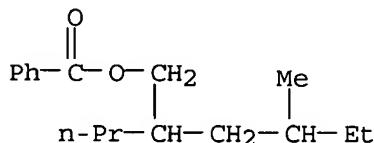


L26 ANSWER 17 OF 37 USPATFULL on STN  
 AN 2004:179188 USPATFULL  
 TI Isodecyl benzoate mixtures, preparation, and their use  
 IN Koch, Jurgen, Haltern am See, GERMANY, FEDERAL REPUBLIC OF  
 Grass, Michael, Haltern am See, GERMANY, FEDERAL REPUBLIC OF  
 PI US 2004138358 A1 20040715  
       US 7205349 B2 20070417  
 AI US 2003-692753 A1 20031027 (10)  
 PRAI DE 2002-10249912 20021026  
 DT Utility  
 FS APPLICATION  
 LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,  
       ALEXANDRIA, VA, 22314  
 CLMN Number of Claims: 31  
 ECL Exemplary Claim: 1  
 DRWN 1 Drawing Page(s)  
 LN.CNT 896  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB The invention relates to isomeric nonyl benzoates, processes for their  
       preparation, mixtures of the same with alkyl phthalate, alkyl adipate,  
       or alkyl cyclohexanedicarboxylate, and also to the use of these  
       mixtures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 IT 685533-02-2P 685533-03-3P  
       (preparation of benzoate isodecyl ester mixts. and their use as  
       plasticizers)  
 RN 685533-02-2 USPATFULL  
 CN 1-Heptanol, 2-propyl-, benzoate (9CI) (CA INDEX NAME)



RN 685533-03-3 USPATFULL  
 CN 1-Hexanol, 4-methyl-2-propyl-, benzoate (9CI) (CA INDEX NAME)



L26 ANSWER 18 OF 37 USPATFULL on STN

CAS ONLINE PRINTOUT

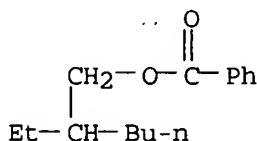
AN 2004:34033 USPATFULL  
TI Film forming compositions containing benzoic acid esters of 8-carbon alcohols as additives  
IN Arendt, William D., Libertyville, IL, United States  
Holt, Mark S., Barrington, IL, United States  
Stanhope, Bruce E., Grayslake, IL, United States  
Streeter, Bruce E., Crystal Lake, IL, United States  
Zimmerman, Eric R., Algonquin, IL, United States  
PA Velsicol Chemical Corporation, Rosemont, IL, United States (U.S. corporation)  
PI US 6689830 B1 20040210  
AI US 1999-419322 19991015 (9)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Reddick, Judy M.  
LREP Fitch, Even, Tabin & Flannery  
CLMN Number of Claims: 19  
ECL Exemplary Claim: 1  
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)  
LN.CNT 709

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions comprising at least one acrylic, vinyl acetate or epoxide polymer or copolymer as a film-forming ingredient and an ester of benzoic acid wherein the alcohol portion of the ester is alkyl and contains eight carbon atoms exhibit unexpected improvements in film-forming and applied film properties. In preferred compositions this alcohol portion is 2-ethylhexyl. Additionally, the preferred benzoic acid ester frequently interacts synergistically with benzoic acid esters derived from oligomeric ethylene glycols.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, 2-Ethylhexyl benzoate  
(floor polishes and adhesives containing C8 alkyl benzoate plasticizers)  
RN 5444-75-7 USPATFULL  
CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 19 OF 37 USPATFULL on STN

AN 2004:30613 USPATFULL  
TI Method of making enhanced efficacy antiperspirant actives  
IN Lee, Wilson, Bloomfield, NJ, UNITED STATES  
Tang, Xiaozhong, Bridgewater, NJ, UNITED STATES  
Brahms, John, Piscataway, NJ, UNITED STATES  
Cush, James, JR., Washington Township, NJ, UNITED STATES  
Esposito, Anthony, Roselle, NJ, UNITED STATES  
Johansson, Marie, Watchung, NJ, UNITED STATES  
PA Colgate-Palmolive Company (U.S. corporation)  
PI US 2004022750 A1 20040205  
AI US 2002-228328 A1 20020826 (10)  
RLI Continuation-in-part of Ser. No. US 2000-597322, filed on 19 Jun 2000,  
ABANDONED  
DT Utility  
FS APPLICATION

CAS ONLINE PRINTOUT

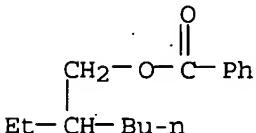
LREP Patent Department, Colgate-Palmolive Company, 909 River Road, P.O. Box 1343, Piscataway, NJ, 08855-1343  
CLMN Number of Claims: 24  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1421

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention comprises: (1) a wet grinding method for enhancing the activity of an aluminum or an aluminum/zirconium salt without the dilution and heating traditionally required wherein the enhancement is described as forming a salt wherein the amount of smaller aluminum species as represented by Peak 4+Peak 5 is increased by an amount of at least 10% over the parent salt; and, if zirconium is present, the area of Peak 1 in the parent salt is at least 10% greater than the area of Peak 1 after grinding; (2) an enhanced aluminum or aluminum/zirconium salt itself; and (3) anhydrous (less than 4% water excluding waters of hydration for the enhanced salt) antiperspirant and/or deodorant products made with the salts described in (2).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, 2-Ethyl hexyl benzoate  
(wet grinding with liquid vehicle for enhancing activity of aluminum or aluminum/zirconium salt antiperspirants)  
RN 5444-75-7 USPATFULL  
CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 20 OF 37 USPATFULL on STN  
AN 2003:214262 USPATFULL  
TI Cleaning surfaces  
IN Motson, Harold Russell, Norton, UNITED KINGDOM  
PA Imperial Chemical Industries PLC, London, UNITED KINGDOM (non-U.S. corporation)  
PI US 2003148905 A1 20030807  
US 6984269 B2 20060110  
AI US 2002-303108 A1 20021125 (10)  
RLI Continuation of Ser. No. WO 2001-GB2263, filed on 22 May 2001, UNKNOWN  
PRAI GB 2000-12491 20000524  
DT Utility  
FS APPLICATION  
LREP PILLSBURY WINTHROP, LLP, P.O. BOX 10500, MCLEAN, VA, 22102  
CLMN Number of Claims: 9  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 682

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Substrates are cleaned by contacting the substrate with a cleaning composition, particularly an aqueous composition, including at least one compound of the formula (I): (R.<sup>sup.2</sup>).sub.p--Ph--(CH.<sub>sub.2</sub>).sub.m--COO--(AO).sub.n--R.<sup>sup.1</sup> (I) where R.<sup>sup.1</sup>, AO, n, M, Ph, R.<sup>sup.2</sup> and p have defined meanings, particularly to give alkyl benzoates. Such compounds provide useful solvency to the cleaning formulations while having a relatively benign environmental profile.

CAS ONLINE PRINTOUT

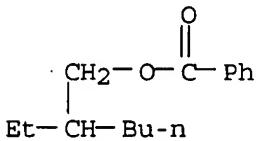
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, 2-Ethylhexyl benzoate

(emulsion cleaning agents containing aromatic acid ester solvents for hard surfaces)

RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 21 OF 37 USPATFULL on STN

AN 2003:213201 USPATFULL

TI Cosmetic films

IN Amato, Steven W., North Plainfield, NJ, UNITED STATES

Hoyte, Wayne M., Parlin, NJ, UNITED STATES

Naranjo, Alexander, Mine Hill, NJ, UNITED STATES

Patel, Shirish, Guttenberg, NJ, UNITED STATES

Barone, Salvatore, Staten Island, NY, UNITED STATES

PI US 2003147838 A1 20030807

US 7011821 B2 20060314

AI US 2002-289147 A1 20021106 (10)

RLI Continuation-in-part of Ser. No. US 2002-152314, filed on 20 May 2002,  
PENDING

PRAI US 2001-292424P 20010521 (60)

DT Utility

FS APPLICATION

LREP SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS,  
MN, 55402

CLMN Number of Claims: 15

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 857

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention includes a cosmetic film. The film includes butylphthalimide isopropylphthalimide, one or more primary film forming polymers and one or more secondary film forming resins.

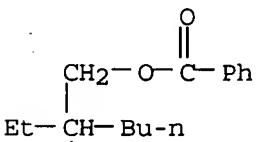
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, 2-Ethylhexyl benzoate

(cosmetic films comprising phthalimide plasticizers and resins in  
solvents)

RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 22 OF 37 USPATFULL on STN

CAS ONLINE PRINTOUT

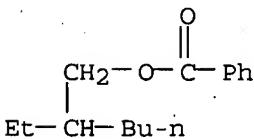
AN 2003:188339 USPATFULL  
 TI Drilling fluids and method of drilling  
 IN Grainger, Neil, Stockton on Tees, UNITED KINGDOM  
     Cox, Terence, Saltburn by Sea, UNITED KINGDOM  
     Scovell, Edward George, Great Ayton, UNITED KINGDOM  
 PA Imperial Chemical Industries PLC, London, UNITED KINGDOM (non-U.S.  
     corporation)  
 PI US 2003130132 A1 20030710  
     US 7122507 B2 20061017  
 AI US 2002-293614 A1 20021114 (10)  
 RLI Continuation of Ser. No. WO 2001-GB2057, filed on 10 May 2001, UNKNOWN  
 PRAI GB 2000-11584 20000515  
     WO 2001-GB2057 20010510  
     US 2000-205032P 20000518 (60)  
 DT Utility  
 FS APPLICATION  
 LREP PILLSBURY WINTHROP, LLP, P.O. BOX 10500, MCLEAN, VA, 22102  
 CLMN Number of Claims: 10  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 567

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

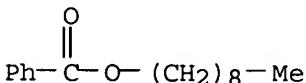
AB Drilling, completing or workover of a well, particularly an oil and/or  
     gas well, is carried out using a fluid which includes a continuous phase  
     including an ester of the formula (I): (R.sup.2).sub.p-Ph-  
     (CH.sub.2).sub.m--COO-(AO).sub.n--R.sup.1 where R.sup.1, AO, n, m, Ph,  
     R.sup.2 and p have defined meanings and particularly where the esters  
     are alkyl or alkenyl benzoate esters. These esters are beneficial by  
     having a range of viscosities, especially extending to low viscosities,  
     and attractive toxicological and environmental profiles for use in  
     drilling, completion and/or workover of wells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, 2-Ethylhexyl benzoate 5451-95-6, Nonyl  
     benzoate  
     (drilling fluids and method of drilling)  
 RN 5444-75-7 USPATFULL  
 CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



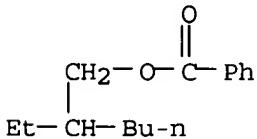
RN 5451-95-6 USPATFULL  
 CN Benzoic acid, nonyl ester (CA INDEX NAME)



L26 ANSWER 23 OF 37 USPATFULL on STN  
 AN 2003:180327 USPATFULL  
 TI Cosmetic films  
 IN Amato, Steven W., North Plainfield, NJ, UNITED STATES

CAS ONLINE PRINTOUT

Hoyte, Wayne M., Parlin, NJ, UNITED STATES  
 Naranjo, Alexander, Mine Hill, NJ, UNITED STATES  
 Patel, Shirish, Guttenberg, NJ, UNITED STATES  
 Barone, Salvatore, Staten Island, NJ, UNITED STATES  
 PI US 2003124154 A1 20030703  
 US 6939551 B2 20050906  
 AI US 2002-152314 A1 20020520 (10)  
 PRAI US 2001-292424P 20010521 (60)  
 DT Utility  
 FS APPLICATION  
 LREP SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS,  
 MN, 55402  
 CLMN Number of Claims: 23  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 862  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB The present invention includes a cosmetic film. The film includes butylphthalimide isopropylphthalimide, one or more primary film forming polymers and one or more secondary film forming resins.  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 IT 5444-75-7, 2-Ethylhexyl benzoate  
 (modifying plasticizer; polymer films containing butylphthalimide isopropylphthalimide plasticizer for nailpolishes)  
 RN 5444-75-7 USPATFULL  
 CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



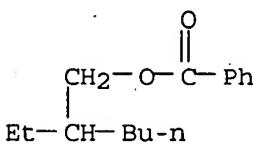
L26 ANSWER 24 OF 37 USPATFULL on STN  
 AN 2003:117414 USPATFULL  
 TI Maintenance of oil production and refining equipment  
 IN Grainger, Neil, Stockton-On-Tees, UNITED KINGDOM  
 Scovell, Edward George, Great Ayton, UNITED KINGDOM  
 Cox, Terence, Saltburn, UNITED KINGDOM  
 PA Imperial Chemical Industries PLC, London, UNITED KINGDOM (non-U.S.  
 corporation)  
 PI US 2003079879 A1 20030501  
 AI US 2002-259839 A1 20020930 (10)  
 RLI Continuation of Ser. No. WO 2001-GB1382, filed on 28 Mar 2001, UNKNOWN  
 PRAI GB 2000-7830 20000331  
 DT Utility  
 FS APPLICATION  
 LREP PILLSBURY WINTHROP, LLP, P.O. BOX 10500, MCLEAN, VA, 22102  
 CLMN Number of Claims: 10  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 419  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB The deposition of asphaltenes and/or petroleum waxes can be inhibited and/or asphaltenes and/or petroleum waxes can be removed from a well, pipe or vessel by contacting the asphaltene and/or petroleum wax or the well pipe or vessel adjacent a location where deposition of asphaltene

CAS ONLINE PRINTOUT

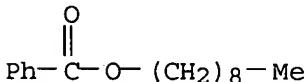
and/or petroleum wax is expected, with a solvent including at least one compound of the formula (I): R<sup>1</sup>-AO-(CH<sub>n</sub>)<sub>m</sub>-OOC-(CH<sub>2</sub>)<sub>p</sub>-Ph where R<sup>1</sup> is a C<sub>1</sub> to C<sub>20</sub> hydrocarbyl group; AO is an alkyleneoxy group and may vary along the (poly)alkyleneoxy chain; n is 1 or from 1 to 100; m is 0, 1 or 2; and Ph is a phenyl group, which may be substituted with groups R<sup>2</sup> where each R<sup>2</sup> is independently a C<sub>1</sub> to C<sub>4</sub> alkyl or alkoxy group; and p is 0, 1 or 2, and subsequently removing the solvent with softened, dissolved or dispersed asphaltenes and/or petroleum waxes from the well, pipe or vessel.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, 2-Ethyl hexyl benzoate 5451-95-6, Nonyl benzoate  
 (maintenance of oil production and refining equipment)  
 RN 5444-75-7 USPATFULL  
 CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



RN 5451-95-6 USPATFULL  
 CN Benzoic acid, nonyl ester (CA INDEX NAME)



L26 ANSWER 25 OF 37 USPATFULL on STN  
 AN 2003:86767 USPATFULL  
 TI Method of oil/gas well stimulation  
 IN Grainger, Neil, Cleveland, UNITED KINGDOM  
 Cox, Terence, Cleveland, UNITED KINGDOM  
 Scovell, Edward George, Cleveland, UNITED KINGDOM  
 PA Imperial Chemical Industries PLC, London, UNITED KINGDOM (non-U.S. corporation)  
 PI US 2003060375 A1 20030327  
 US 6849582 B2 20050201  
 AI US 2002-293616 A1 20021114 (10)  
 RLI Continuation of Ser. No. WO 2001-GB2076, filed on 10 May 2001, UNKNOWN  
 PRAI GB 2000-11573 20000515  
 WO 2001-GB2076 20010510  
 DT Utility  
 FS APPLICATION  
 LREP PILLSBURY WINTHROP, LLP, P.O. BOX 10500, MCLEAN, VA, 22102  
 CLMN Number of Claims: 12  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 471  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Stimulation, particularly fracturing or acidising, of hydrocarbon wells having bores leading to hydrocarbon bearing uses a fluid including a continuous phase of or including a compound of the formula (I):

CAS ONLINE PRINTOUT

(R.<sup>sup.2</sup>).sub.p--Ph--(CH.<sub>sub.2</sub>).sub.m--COO--(AO).sub.n--R.<sup>sup.1</sup> where R.<sup>sup.1</sup>, AO, n, m, Ph, R.<sup>sup.2</sup> and p have defined meanings and particularly where the esters are alkyl or alkenyl benzoate esters. These esters are beneficial by having a range of viscosities, especially extending to low viscosities, and attractive toxicological and environmental profiles for use in well stimulation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

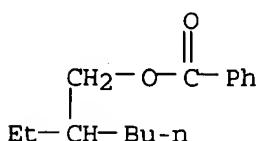
IT 5444-75-7, 2-Ethylhexyl benzoate 5451-95-6, Nonyl benzoate

(acidizing fluids containing; acidizing-fracturing fluids containing benzoate

esters for stimulation of petroleum and natural gas wells)

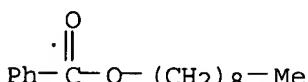
RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



RN 5451-95-6 USPATFULL

CN Benzoic acid, nonyl ester (CA INDEX NAME)



L26 ANSWER 26 OF 37 USPATFULL on STN

AN 2003:75488 USPATFULL

TI Oil production additive formulations

IN Cox, Terence, Saltburn, UNITED KINGDOM

Grainger, Neil, Stockton-on-Tees, UNITED KINGDOM

Scovell, Edward George, Great Ayton, UNITED KINGDOM

PA Imperial Chemical Industries Plc, London, UNITED KINGDOM (non-U.S. corporation)

PI US 2003051395 A1 20030320

AI US 2002-153702 A1 20020524 (10)

RLI Continuation of Ser. No. WO 2000-GB4509, filed on 27 Nov 2000, UNKNOWN

PRAI GB 1999-28127 19991130

GB 2000-7831 20000331

DT Utility

FS APPLICATION

LREP Pillsbury Winthrop LLP, Intellectual Property Group, 1600 Tyson's Boulevard, McLean, VA, 22102

CLMN Number of Claims: 26

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 615

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Petroleum additive formulations include a petroleum additive dissolved in a carrier fluid including at least one compound of the formula (I): (R.<sup>sup.2</sup>).sub.p--Ph--(CH.<sub>sub.2</sub>).sub.m--COO--(AO).sub.n--R.<sup>sup.1</sup> where; R.<sup>sup.1</sup> is C.<sub>sub.1</sub> to C.<sub>sub.10</sub> alkyl; AO is alkyleneoxy; n is 0 or from 1 to 100; m is 0, 1 or 2; and Ph is a phenyl group, which may be

CAS ONLINE PRINTOUT

substituted with groups (R.sup.2).sub.p; where each R.sup.2 is independently C.sub.1 to C.sub.4 alkyl or alkoxy; and p is 0, 1 or 2. Further, crude petroleum or petroleum refinery streams can be treated by adding a petroleum additive dissolved in a carrier fluid of the formula (I) to the product stream. Desirably the carrier fluid is or includes iso-propyl benzoate and/or 2-ethyl hexyl benzoate.

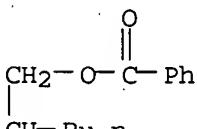
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7, 2-Ethyl hexyl benzoate 5451-95-6, Nonyl benzoate

(oil production additive formulations)

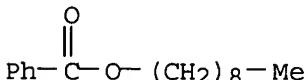
RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



RN 5451-95-6 USPATFULL

CN Benzoic acid, nonyl ester (CA INDEX NAME)



L26 ANSWER 27 OF 37 USPATFULL on STN

AN 2001:75576 USPATFULL

TI Continuous process for preparing benzoic acid esters

IN McConnell, Wesley Wayne, Grayslake, IL, United States

Stanhope, Bruce Edward, Grayslake, IL, United States

Luxem, Franz Josef, Palatine, IL, United States

PA Velsicol Chemical Corporation, Rosemont, IL, United States (U.S. corporation)

PI US 6235924 B1 20010522

AI US 2000-633712 20000807 (9)

DT Utility

FS Granted

EXNAM Primary Examiner: McKane, Joseph K.; Assistant Examiner: Murray, Joseph

LREP Spector, Robert

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 690

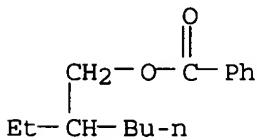
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a continuous series of at least 3 esterification reactions, each of which yields highly pure esters derived from benzoic and at least one alcohol selected from monohydric alcohols containing from 6 to 12 carbon atoms and dihydric alcohols containing from 2 to 8 carbon atoms. At least a portion of the esterification catalyst and high boiling impurities remaining following distillation of the desired ester are used in the reaction mixture for the next reaction of the series.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

## CAS ONLINE PRINTOUT

IT 5444-75-7P, 2-Ethylhexyl benzoate  
     (continuous process for preparing benzoic acid esters)  
 RN 5444-75-7 USPATFULL  
 CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)

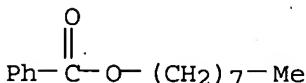


L26 ANSWER 28 OF 37 USPATFULL on STN  
 AN 93:95807 USPATFULL  
 TI Liquid crystal compounds  
 IN Suzuki, Yoshiichi, Tokyo, Japan  
     Mogamiya, Horiyuki, Tokyo, Japan  
     Kawamura, Ichiro, Tokyo, Japan  
 PA Showa Shell Sekiyu Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)  
 PI US 5262086 19931116  
 AI US 1992-903953 19920626 (7)  
 RLI Division of Ser. No. US 1991-785877, filed on 4 Nov 1991, now patented,  
     Pat. No. US 5184847 And a continuation-in-part of Ser. No. 785877  
     which is a continuation of Ser. No. US 1990-533813, filed on 6 Jun 1990,  
     now abandoned  
 PRAI JP 1989-143472 19890606  
 DT Utility  
 FS Granted  
 EXNAM Primary Examiner: Stoll, Robert L.; Assistant Examiner: Wu, Shean C.  
 LREP Cushman, Darby & Cushman  
 CLMN Number of Claims: 5  
 ECL Exemplary Claim: 1  
 DRWN 19 Drawing Figure(s); 8 Drawing Page(s)  
 LN.CNT 685  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB (R)- and (S)-enantiomer composition represented by the formula (I)  
     having sufficient high optical purity for exhibiting optically tristable  
     states in S\*(3) phase; ##STR1## wherein Ra means a C<sub>sub</sub>.5 -C<sub>sub</sub>.14  
     alkyl group or a C<sub>sub</sub>.5 -C<sub>sub</sub>.14 alkoxy group, preferably a C<sub>sub</sub>.5  
     -C<sub>sub</sub>.14 alkyl group, Rb means a C<sub>sub</sub>.4 -C<sub>sub</sub>.12 normal alkyl group  
     or a C<sub>sub</sub>.4 -C<sub>sub</sub>.12 branched alkyl group, X means a ##STR2## group or  
     a ##STR3## group, Z means a fluorine containing alkyl group, preferably  
     a trifluoromethyl group and \* shows an optically active carbon.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 94-50-8  
     (reaction of, in formation of liquid-crystal compds.)  
 RN 94-50-8 USPATFULL  
 CN Benzoic acid, octyl ester (CA INDEX NAME)



L26 ANSWER 29 OF 37 USPATFULL on STN  
 AN 93:31090 USPATFULL

## CAS ONLINE PRINTOUT

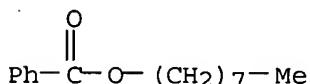
TI Liquid crystal compounds  
 IN Suzuki, Yoshiichi, Tokyo, Japan  
     Mogamiya, Hiroyuki, Tokyo, Japan  
     Kawamura, Ichiro, Tokyo, Japan  
 PA Showa Shell Sekiyu K.K., Tokyo, Japan (non-U.S. corporation)  
 PI US 5204020                   19930420  
 AI US 1992-875609               19920429 (7)  
 RLI Continuation of Ser. No. US 1989-305127, filed on 2 Feb 1989, now abandoned  
 PRAI JP 1988-21159               19880202  
     JP 1988-21160               19880202  
 DT Utility  
 FS Granted  
 EXNAM Primary Examiner: Stoll, Robert L.; Assistant Examiner: Harris, C.  
 LREP Sughrue, Mion, Zinn, Macpeak & Seas  
 CLMN Number of Claims: 1  
 ECL Exemplary Claim: 1  
 DRWN 12 Drawing Figure(s); 12 Drawing Page(s)  
 LN.CNT 571

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Liquid crystal compounds represented by the formula; ##STR1## in which Ra means an alkyl group of 1-20 carbon atoms or an alkoxy group of 1-20 carbon atoms; Rb means an aliphatic alkyl group, a branched alkyl group or an aralkyl group respectively of 1-20 carbon atoms, an alkoxy group of 1-20 carbon atoms, or an alkanoyl methyl group having 1-20 carbon atoms in the alkyl; ##STR2## Z means a fluorinated alkyl or a fluorinated haloalkyl; m is an integer of from 1 to 3; n is an integer of from 0 to 2 where when n is 0, Y is a single bond; and \* shows an optically active center, which have a larger spontaneous polarization, high speed of response and good orientation, and show tristable liquid crystal phase.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 94-50-8  
     (reaction of, in formation of liquid-crystal compds.)  
 RN 94-50-8 USPATFULL  
 CN Benzoic acid, octyl ester (CA INDEX NAME)



L26 ANSWER 30 OF 37 USPATFULL on STN  
 AN 93:10038 USPATFULL  
 TI Liquid crystal compounds  
 IN Suzuki, Yoshiichi, Tokyo, Japan  
     Mogamiya, Hiroyuki, Tokyo, Japan  
     Kawamura, Ichiro, Tokyo, Japan  
 PA Showa Shell Sekiyu Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)  
 PI US 5184847                   19930209  
 AI US 1991-785877               19911104 (7)  
 RLI Continuation of Ser. No. US 1990-533813, filed on 6 Jun 1990, now abandoned  
 PRAI JP 1989-143472               19890606  
 DT Utility  
 FS Granted  
 EXNAM Primary Examiner: Stoll, Robert L.; Assistant Examiner: Wu, Shean C.  
 LREP Cushman, Darby, Cushman

CAS ONLINE PRINTOUT

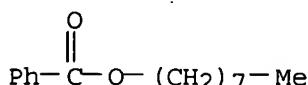
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN 9 Drawing Figure(s); 5 Drawing Page(s)  
LN.CNT 372

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Ferrelectric chiral smetic liquid crystal compound are provided which have the formula, for example ##STR1## wherein R is a C.sub.1-20 alkyl group.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 94-50-8  
(reaction of, in formation of liquid-crystal compds.)  
RN 94-50-8 USPATFULL  
CN Benzoic acid, octyl ester (CA INDEX NAME)



L26 ANSWER 31 OF 37 USPATFULL on STN

AN 86:32781 USPATFULL  
TI Silver halide photographic printing paper  
IN Yoshida, Tetsuo, Kanagawa, Japan  
Kokubo, Tadayoshi, Kanagawa, Japan  
Adachi, Keiichi, Kanagawa, Japan  
Ikeda, Tadashi, Kanagawa, Japan  
Kobayashi, Hidetoshi, Kanagawa, Japan  
PA Fuji Photo Film Co., Ltd., Kanagawa, Japan (non-U.S. corporation)  
PI US 4592991 19860603  
AI US 1984-684402 19841220 (6)  
PRAI JP 1983-242717 19831222  
DT Utility  
FS Granted

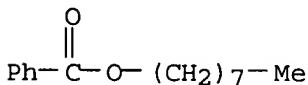
EXNAM Primary Examiner: Downey, Mary F.  
LREP Sughrue, Mion, Zinn, Macpeak & Seas  
CLMN Number of Claims: 13  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 710

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A silver halide photographic printing paper is described, comprising a support and a photographic layer containing a silver halide developing agent, wherein a dispersion of an oil-soluble brightening agent in a high boiling point organic solvent having a specific inductive capacity of 7.5 or less is contained in the photographic layer. This printing paper yields a background of high whiteness even when processed under rapid processing conditions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 94-50-8  
(in fluorescent brightener incorporation in photog. papers)  
RN 94-50-8 USPATFULL  
CN Benzoic acid, octyl ester (CA INDEX NAME)



CAS ONLINE PRINTOUT

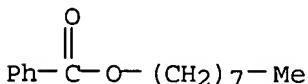
L26 ANSWER 32 OF 37 USPATFULL on STN  
AN 83:2983 USPATFULL  
TI Method for treating olefin polymer for removing catalyst  
IN Toyota, Akinori, Iwakuni, Japan  
Kashiwa, Norio, Iwakuni, Japan  
PA Mitsui Petrochemical Industries, Ltd., Tokyo, Japan (non-U.S.  
corporation)  
PI US 4369306 19830118  
AI US 1981-240404 19810304 (6)  
PRAI JP 1980-27993 19800307  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Henderson, C. A.  
LREP Sherman & Shalloway  
CLMN Number of Claims: 10  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 573

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for treating an olefin polymer, which comprises contacting an olefin polymer obtained by polymerizing an olefin in the presence of a catalyst composed of (A) a highly active transition metal compound, (B) an organoaluminum compound and (C) a carbonyl- or Si-containing electron donor, with (D) an organometallic compound of a metal of Groups I to III of the periodic table after the polymerization. This method can markedly reduce the amount of an electron donor remaining in an olefin polymer after polymerization, the electron donor being an ingredient of a catalyst used in the polymerization and constituting the main cause of an offensive odor which the resulting polymer gives off.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 94-50-8 (catalysts containing, polymerization of olefins in presence of, removal of odor-causing catalyst components in)  
RN 94-50-8 USPATFULL  
CN Benzoic acid, octyl ester (CA INDEX NAME)



L26 ANSWER 33 OF 37 USPATFULL on STN  
AN 81:68228 USPATFULL  
TI Process for producing solid titanium trichloride  
IN Hasuo, Masayoshi, Yokohama, Japan  
Suga, Yoshinori, Yokohama, Japan  
Kobayashi, Yoshiteru, Kawasaki, Japan  
Kojima, Kazuhisa, Yokohama, Japan  
Suzuki, Masatoshi, Fujisawa, Japan  
PA Mitsubishi Chemical Industries, Ltd., Tokyo, Japan (non-U.S.  
corporation)  
PI US 4305920 19811215  
AI US 1980-117006 19800130 (6)  
PRAI JP 1979-23983 19790301  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Carter, Herbert T.

CAS ONLINE PRINTOUT

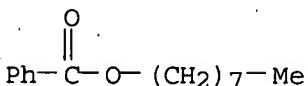
LREP Oblon, Fisher, Spivak, McClelland & Maier  
CLMN Number of Claims: 3  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 460

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A fine solid titanium trichloride is used as a catalyst for a polymerization of an  $\alpha$ -olefin. The solid titanium trichloride is produced by precipitating it at lower than 150° C. from a liquid titanium trichloride complex in the presence of an ester having the formula ##STR1## wherein R.<sup>1</sup> and R.<sup>2</sup> respectively represent a hydrocarbon moiety and total carbon atoms of R.<sup>1</sup> and R.<sup>2</sup> are 10 or more.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 94-50-8, Octyl benzoate  
(in solid titanium trichloride manufacture from liquid titanium trichloride for olefin polymerization catalyst)  
RN 94-50-8 USPATFULL  
CN Benzoic acid, octyl ester (CA INDEX NAME)



L26 ANSWER 34 OF 37 USPATFULL on STN

AN 81:56186 USPATFULL  
TI Process for preparing olefin polymers or copolymers, and catalyst for use in said process  
IN Toyota, Akinori, Iwakuni, Japan  
Yoshitugu, Ken, Otake, Japan  
Kashiwa, Norio, Iwakuni, Japan  
PA Mitsui Petrochemical Industries Ltd., Tokyo, Japan (non-U.S. corporation)  
PI US 4294948 19811013  
AI US 1979-84317 19791012 (6)  
RLI Continuation of Ser. No. US 1978-880584, filed on 23 Feb 1978, now abandoned

PRAI JP 1977-22754 19770304

DT Utility

FS Granted

EXNAM Primary Examiner: Smith, Edward J.

LREP Sherman & Shalloway

CLMN Number of Claims: 7

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 906

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for preparing an olefin polymer or copolymer by polymerizing or copolymerizing an olefin containing at least 3 carbon atoms which may contain at most 10 mole % of ethylene and/or a diene, in the presence of a catalyst composed of (A) a solid titanium catalyst component prepared by.

(1) reacting a mechanically pulverized product of an organic acid ester and a halogen-containing magnesium compound, with an active hydrogen-containing organic compound in the absence of mechanical pulverization,

CAS ONLINE PRINTOUT

(2) reacting the resulting reaction product with an organometallic compound of a metal of Groups I to III of the periodic table in the absence of mechanical pulverization, and

(3) washing the resulting solid reaction product with an inert organic solvent, reacting the washed solid reaction product with a titanium compound in the absence of mechanical pulverization, and separating the solid from the reaction system,

and (B) an organometallic compound of a metal of Groups I to III of the periodic table; and a catalyst used therefor.

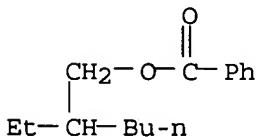
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7

(catalysts, for polymerization of olefins)

RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 35 OF 37 USPATFULL on STN

AN 79:38911 USPATFULL

TI Perfume compositions

IN Kulka, Kurt, New York, NY, United States

PA Fritzsche Dodge & Olcott Inc., New York, NY, United States (U.S. corporation)

PI US 4168248 19790918

AI US 1978-880580 19780223 (5)

RLI Continuation-in-part of Ser. No. US 1972-305793, filed on 13 Nov 1972, now abandoned Ser. No. Ser. No. US 1970-42495, filed on 1 Jun 1970, now abandoned Ser. No. Ser. No. US 1968-750459, filed on 6 Aug 1968, now abandoned And Ser. No. US 1966-559708, filed on 23 Jun 1966, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Ore, Dale R.

LREP Nolan, Frank M.

CLMN Number of Claims: 15

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 736

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The perfume compositions of this invention include one or more of 3-methylnonan-3-ol, 3-methyl-1-nonene-3-ol, 3-methylnonan-1-ol, 3-methyl-2-nonene-1-ol and the monocarboxylic acid esters of these alcohols. The perfume compositions also contain a perfume component, the odoriferous properties of which are enhanced and modified by said alcohols or esters of the alcohols without chemical reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

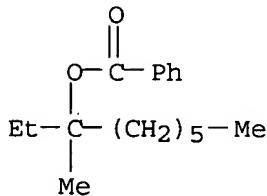
IT 72315-08-3P

(preparation of, for perfumes)

RN 72315-08-3 USPATFULL

## CAS ONLINE PRINTOUT

CN 3-Nonanol, 3-methyl-, benzoate (9CI) (CA INDEX NAME)



L26 ANSWER 36 OF 37 USPATFULL on STN

AN 78:15317 USPATFULL

TI Photographic light-sensitive material  
IN Mukunoki, Yasuo, Minami-ashigara, Japan  
Mikami, Takeshi, Minami-ashigara, Japan  
Tsugi, Nobuo, Minami-ashigara, Japan

PA Fuji Photo Film Co., Ltd., Minami-ashigara, Japan (non-U.S. corporation)

PI US 4080209 19780321

AI US 1976-702322 19760702 (5)

PRAI JP 1975-82078 19750713

DT Utility

FS Granted

EXNAM Primary Examiner: Brown, J. Travis

LREP Sughrue, Rothwell, Mion, Zinn and Macpeak

CLMN Number of Claims: 17

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1079

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A silver halide photographic light-sensitive material comprising a hydrophilic organic colloid layer containing a photographic additive dispersed therein using as a solvent a benzoic acid ester which has a boiling point of greater than 250° C at atmospheric pressure, which is soluble in water in a proportion of less than about 10% by weight, and which dissolves water in a proportion of less than about 5% by weight. The benzoic acid ester does not have any harmful influence on the human body and does not cause environmental pollution.

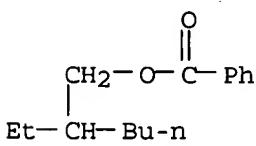
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 5444-75-7

(solvent, for dissolving and incorporating additives in photog. emulsions)

RN 5444-75-7 USPATFULL

CN Benzoic acid, 2-ethylhexyl ester (CA INDEX NAME)



L26 ANSWER 37 OF 37 USPATFULL on STN

AN 75:59505 USPATFULL

TI Carbonylation of organomercurials

IN Baird, Jr., William C., Westfield, NJ, United States

CAS ONLINE PRINTOUT

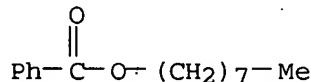
Hartgerink, Ronald L., Edison, NJ, United States  
Surridge, John H., Scotch Plains, NJ, United States  
PA Exxon Research & Engineering Company, Linden, NJ, United States (U.S.  
corporation)  
PI US 3917670 19751104  
AI US 1972-233338 19720309 (5)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Sutto, Anton H.; Assistant Examiner: Thaxton, L. A.  
LREP Allocca, Joseph J.  
CLMN Number of Claims: 13  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 940

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Carboxylic acids and carboxylic acid esters are prepared by the  
carbonylation of organomercurials in a solvent comprising either  
carboxylic acids or alcohols and in the presence of a Group VIII metal  
catalyst complex.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 94-50-8P  
(preparation of)  
RN 94-50-8 USPATFULL  
CN Benzoic acid, octyl ester (CA INDEX NAME)



=>

*By Jgal*

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2005:116100 CAPLUS <<LOGINID::20070808>>

DN 142:199502

TI Foamable compositions comprising benzoic acid isononyl esters

IN Grass, Michael; Koch, Juergen

PA Oxeno Olefinchemie GmbH, Germany

SO Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1505104	A1	20050209	EP 2004-102620	20040609
	EP 1505104	B1	20070131		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	DE 10336150	A1	20050310	DE 2003-10336150	20030807
	DE 20321027	U1	20051013	DE 2003-20321027	20030807
	AT 353089	T	20070215	AT 2004-102620	20040609
	JP 2005054187	A	20050303	JP 2004-228556	20040804
	CA 2476642	A1	20050207	CA 2004-2476642	20040805
	KR 2005016207	A	20050221	KR 2004-62121	20040806
	US 2005049341	A1	20050303	US 2004-912132	20040806
	CN 1590453	A	20050309	CN 2004-10054993	20040806
	BR 2004003259	A	20050531	BR 2004-3259	20040806
PRAI	DE 2003-10336150	A	20030807		

AB Alkyl benzoates (especially, isononyl benzoate) are used as plasticizers (together with C4-13 dialkyl phthalates, C4-13 dialkyl cyclohexane dicarboxylates, C7-10 alkyl esters of trimellitic acid, phenol alkylsulfonates, alkyl benzyl phthalates, dibenzoates or citrates of diethylene glycol, dipropylene glycol or triethylene glycol) for Cl-containing polymers (such as PVC, polyvinylidenechloride, chlorinated polyolefins and copolymers of vinyl chloride with vinylidenechloride, vinyl acetate, vinyl propionate, vinyl butyrate, vinyl benzoate, MMA, Et acrylate or Bu acrylate) in manufacture of foamed products useful for floor covering, for artificial leather and tapestry. A typical plastisol prepared by mixing at room temperature 100 weight parts of PVC (a mixture of Vestolit P 1352K and

Vinnolit

C65V), 40 weight parts of diisononyl ester of 1,2-benzenedicarboxylic acid (Vestinol 9), 17 weight parts of isononyl benzoate (prepared by reacting benzoic acid with isononanol in the presence of Bu titanate as a catalyst), 4 weight parts of blowing agent (Porofor ADC/L-C2), 5 weight parts

of

TiO<sub>2</sub> 10 weight parts of a chalk and 1.5 weight parts of Bayoxide Z exhibits viscosity 2.7 Pa s at room temperature compared to 3.9 Pa s for the same plastisol containing only diisononyl ester of 1,2-benzenedicarboxylic acid as a plasticizer.

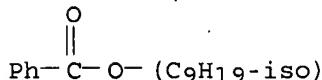
IT 835614-42-1

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(plasticizer; alkyl benzoates (especially, isononyl benzoate) are used as plasticizers together with other plasticizers for Cl-containing polymers in manufacture of foamed products)

RN 835614-42-1 CAPLUS

CN Benzoic acid, isononyl ester (CA INDEX NAME)



RE.CNT 3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

*By Yale*

L7 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2005:260135 CAPLUS <<LOGINID::20070808>>

DN 142:317515

TI Use of isononyl benzoate as a film-forming agent.

IN Grass, Michael; Koch, Juergen

PA Oxeno Olefinchemie GmbH, Germany

SO PCT Int. Appl., 29 pp.

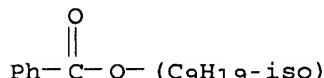
CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005026249	A1	20050324	WO 2004-EP51523	20040716
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10341428	A1	20050331	DE 2003-10341428	20030909
	CA 2538549	A1	20050324	CA 2004-2538549	20040716
	EP 1664177	A1	20060607	EP 2004-742000	20040716
	EP 1664177	B1	20070613		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	CN 1849369	A	20061018	CN 2004-80025866	20040716
	AT 364659	T	20070715	AT 2004-742000	20040716
	US 2007010599	A1	20070111	US 2006-570199	20060302
	NO 2006001557	A	20060406	NO 2006-1557	20060406
PRAI	DE 2003-10341428	A	20030909		
	WO 2004-EP51523	W	20040716		
AB	A binder containing 0.1 - 30 weight% (based on dry polymer) of benzoic acid isononyl ester (itself and in mixture with alkyl benzoates and phthalates and glycol ethers) as a plasticizer for homopolymers, copolymers and terpolymers of unsatd. esters is used for emulsion paints, mortars, adhesives and varnishes. Thus, benzoic acid isononyl ester prepared by reacting 976 g of benzoic acid and 1,728 g of isononanol in the presence of 0.59 g of Bu titanate for 3 h, removing water, cooling to 60°, removing the rest of isononanol at 120° and 2 mbar is used as a plasticizer for aqueous disperse of copolymer styrene and acrylate (Lipaton AE4620).				
IT	835614-42-1P				
	RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (plasticizer; benzoic acid isononyl ester as a plasticizer for homopolymers, copolymers and terpolymers of unsatd. esters)				
RN	835614-42-1 CAPLUS				
CN	Benzoic acid, isononyl ester (CA INDEX NAME)				



ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L7 BIB ABS HITSTR 1-7

*By Gale*

L7 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2007:175255 CAPLUS <<LOGINID::20070808>>

DN 146:230116

TI Polyvinyl chloride compositions

IN Olsen, David Justin; Stimpson, Martin James

PA USA

SO U.S. Pat. Appl. Publ., 7pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2007037926	A1	20070215	US 2005-202543	20050812
	WO 2007021987	A1	20070222	WO 2006-US31465	20060810
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRAI US 2005-202543 A 20050812

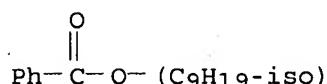
AB A polyvinyl chloride composition having polyvinyl chloride resin and a plasticizer ester selected from di-Bu terephthalate, diisobutyl terephthalate, or mixts. thereof.

IT 835614-42-1, Isononyl benzoate

RL: MOA (Modifier or additive use); USES (Uses)  
(plasticizer; polyvinyl chloride compns.)

RN 835614-42-1 CAPLUS

CN Benzoic acid, isononyl ester (CA INDEX NAME)



L7 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:1175725 CAPLUS <<LOGINID::20070808>>

DN 145:471258

TI Esterification process for the preparation of carboxylic acid esters from carboxylic acids or anhydrides and alcohols

IN Gubisch, Dietmar; Beck, Thomas; Bueschken, Wilfried

PA Oxeno Olefinchemie G.m.b.H., Germany

SO Eur. Pat. Appl., 16pp.

CODEN: EPXXDW

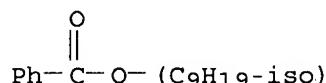
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1719753	A1	20061108	EP 2006-111045	20060313
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,			

BA, HR, IS, YU  
 DE 102005021075 A1 20061109 DE 2005-102005021075 20050506  
 PRAI DE 2005-102005021075 Å 20050506  
 AB An esterification process for the preparation of carboxylic acid esters (e.g., diisononyl phthalate) from carboxylic acids or anhydrides (e.g., phthalic anhydride) and alcs. (e.g., isononyl alc.) is described.  
 IT 835614-42-1P, Isononyl benzoate  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
 (esterification process for the preparation of carboxylic acid esters from carboxylic acids or anhydrides and alcs.)  
 RN 835614-42-1 CAPLUS  
 CN Benzoic acid, isononyl ester (CA INDEX NAME)



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

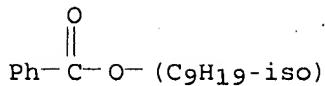
L7 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2006:649502 CAPLUS <>LOGINID::20070808>>  
 DN 145:124239  
 TI Process for the continuous catalytic hydrogenation of aromatic carboxylic acids and their derivatives into alicyclic carboxylic acids or their derivatives  
 IN Grass, Michael; Reeken, Bernhard; Tuchlenski, Axel; Kaizik, Alfred  
 PA Oxeno Olefinchemie G.m.b.H., Germany  
 SO Eur. Pat. Appl., 15 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1676829	A2	20060705	EP 2005-110310	20051103
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
	DE 102004063673	A1	20060713	DE 2004-102004063673	20041231
	SG 123746	A1	20060726	SG 2005-8271	20051221
	JP 2006188520	A	20060720	JP 2005-379457	20051228
	US 2006161017	A1	20060720	US 2005-320409	20051229
	CN 1796352	A	20060705	CN 2005-10137577	20051230

PRAI DE 2004-102004063673 A 20041231  
 AB A process for the continuous catalytic (e.g., Ru/TiO<sub>2</sub>) hydrogenation of aromatic carboxylic acids and their derivs. (e.g., diisononyl phthalate) into alicyclic carboxylic acids or their derivs. (e.g., diisononyl 1,2-cyclohexanedicarboxylate) is described and a process flow diagram is presented.

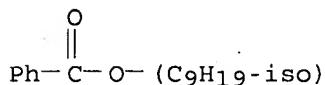
IT 835614-42-1  
 RL: EPR (Engineering process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)  
 (process for the continuous catalytic hydrogenation of aromatic carboxylic acids and their derivs. into alicyclic carboxylic acids or their derivs.)

RN 835614-42-1 CAPLUS  
 CN Benzoic acid, isononyl ester (CA INDEX NAME)



L7 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2006:649489 CAPLUS <<LOGINID::20070808>>  
 DN 145:124238  
 TI Catalytic three-stage hydrogenation process for the preparation of alicyclic carboxylic acids or derivatives from their corresponding aromatic carboxylic acids or their derivatives  
 IN Grass, Michael; Reeken, Burkhard; Tuchlenski, Axel; Kaizik, Alfred; Bueschken, Wilfried  
 PA Oxeno Olefinchemie G.m.b.H., Germany  
 SO Eur. Pat. Appl., 13 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

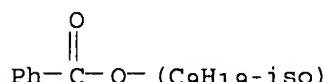
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1676828	A2	20060705	EP 2005-110309	20051103
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
DE 102004063637	A1	20060713	DE 2004-102004063637	20041231
SG 123729	A1	20060726	SG 2005-8114	20051215
JP 2006188521	A	20060720	JP 2005-379458	20051228
CN 1796353	A	20060705	CN 2005-10137580	20051230
US 2006167151	A1	20060727	US 2006-322349	20060103
PRAI DE 2004-102004063637 A		20041231		
AB A catalytic (e.g., 1% Ru/TiO <sub>2</sub> ) three-stage hydrogenation process, using three hydrogenation reactors, is described for the preparation of alicyclic carboxylic acids or their derivs. (e.g., diisononyl 1,2-cyclohexanedicarboxylate) from their corresponding aromatic carboxylic acids or their derivs. (e.g., diisononyl phthalate). A process flow diagram is presented.				
IT 835614-42-1				
RL: EPR (Engineering process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent) (catalytic three-stage hydrogenation process for the preparation of alicyclic carboxylic acids or derivs. from their corresponding aromatic carboxylic acids or their derivs.)				
RN 835614-42-1 CAPLUS				
CN Benzoic acid, isononyl ester (CA INDEX NAME)				



L7 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2005:371205 CAPLUS <<LOGINID::20070808>>  
 DN 142:430023  
 TI Esterification method for producing alkyl benzoates using divalent tin compound catalysts  
 IN Grass, Michael; Gubisch, Dietmar; Woelk-Faehrmann, Michael  
 PA Oxeno Olefinchemie GmbH, Germany  
 SO PCT Int. Appl., 26 pp.

CODEN: PIXXD2  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005037764	A1	20050428	WO 2004-EP51854	20040820
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10347863	A1	20050504	DE 2003-10347863	20031010
	EP 1682480	A1	20060726	EP 2004-766552	20040820
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	US 2007060768	A1	20070315	US 2006-575100	20060410
PRAI	DE 2003-10347863	A	20031010		
	WO 2004-EP51854	W	20040820		
OS	CASREACT 142:430023				
AB	Alkyl benzoates (e.g., isononyl benzoate), whose alkyl groups contain 7-13 carbon atoms, are prepared by esterifying benzoic acid with a C7-13 alc. (e.g., isononanol), removing water formed during the esterification by distillation, and, after the esterification reaction, removing the unreacted alc. The esterification is carried out in the presence of a divalent tin compound catalyst (e.g., tin oxalate) and a reaction mixture of the catalyst and/or the derivs: thereof remaining after the non-reacted alc. separation is/are separated by filtration or centrifugation without treatment by a base.				
IT	835614-42-1P				
	RL: IMF, (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)				
	(esterification method for producing alkyl benzoates using divalent tin compound catalysts)				
RN	835614-42-1 CAPLUS				
CN	Benzoic acid, isononyl ester (CA INDEX NAME)				

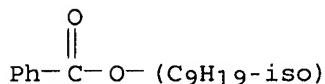


RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2005:260135 CAPLUS <>LOGINID::20070808>>  
DN 142:317515  
TI Use of isononyl benzoate as a film-forming agent.  
IN Grass, Michael; Koch, Juergen  
PA Oxeno Olefinchemie GmbH, Germany  
SO PCT Int. Appl., 29 pp.  
CODEN: PIXXD2  
DT Patent  
LA German  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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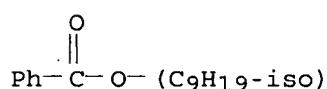
PI WO 2005026249 A1 20050324 WO 2004-EP51523 20040716  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,  
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,  
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,  
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG.  
 DE 10341428 A1 20050331 DE 2003-10341428 20030909  
 CA 2538549 A1 20050324 CA 2004-2538549 20040716  
 EP 1664177 A1 20060607 EP 2004-742000 20040716  
 EP 1664177 B1 20070613  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
 CN 1849369 A 20061018 CN 2004-80025866 20040716  
 AT 364659 T 20070715 AT 2004-742000 20040716  
 US 2007010599 A1 20070111 US 2006-570199 20060302  
 NO 2006001557 A 20060406 NO 2006-1557 20060406  
 PRAI DE 2003-10341428 A 20030909  
 WO 2004-EP51523 W 20040716  
 AB A binder containing 0.1 - 30 weight% (based on dry polymer) of benzoic acid isononyl ester (itself and in mixture with alkyl benzoates and phthalates and glycol ethers) as a plasticizer for homopolymers, copolymers and terpolymers of unsatd. esters is used for emulsion paints, mortars, adhesives and varnishes. Thus, benzoic acid isononyl ester prepared by reacting 976 g of benzoic acid and 1,728 g of isononanol in the presence of 0.59 g of Bu titanate for 3 h, removing water, cooling to 60°, removing the rest of isononanol at 120° and 2 mbar is used as a plasticizer for aqueous disperse of copolymer styrene and acrylate (Lipaton AE4620).  
 IT 835614-42-1P  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (plasticizer; benzoic acid isononyl ester as a plasticizer for homopolymers, copolymers and terpolymers of unsatd. esters)  
 RN 835614-42-1 CAPLUS  
 CN Benzoic acid, isononyl ester (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2005:116100 CAPLUS <>LOGINID::20070808>>  
 DN 142:199502  
 TI Foamable compositions comprising benzoic acid isononyl esters  
 IN Grass, Michael; Koch, Juergen  
 PA Oxeno Olefinchemie GmbH, Germany  
 SO Eur. Pat. Appl., 16 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1505104	A1	20050209	EP 2004-102620	20040609
PI EP 1505104	B1	20070131	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR	
DE 10336150	A1	20050310	DE 2003-10336150	20030807
DE 20321027	U1	20051013	DE 2003-20321027	20030807
AT 353089	T	20070215	AT 2004-102620	20040609
JP 2005054187	A	20050303	JP 2004-228556	20040804
CA 2476642	A1	20050207	CA 2004-2476642	20040805
KR 2005016207	A	20050221	KR 2004-62121	20040806
US 2005049341	A1	20050303	US 2004-912132	20040806
CN 1590453	A	20050309	CN 2004-10054993	20040806
BR 2004003259	A	20050531	BR 2004-3259	20040806
PRAI DE 2003-10336150	A	20030807		
AB Alkyl benzoates (especially, isononyl benzoate) are used as plasticizers (together with C4-13 dialkyl phthalates, C4-13 dialkyl cyclohexane dicarboxylates, C7-10 alkyl esters of trimellitic acid, phenol alkylsulfonates, alkyl benzyl phthalates, dibenzoates or citrates of diethylene glycol, dipropylene glycol or triethylene glycol) for Cl-containing polymers (such as PVC, polyvinylidenechloride, chlorinated polyolefins and copolymers of vinyl chloride with vinylidenechloride, vinyl acetate, vinyl propionate, vinyl butyrate, vinyl benzoate, MMA, Et acrylate or Bu acrylate) in manufacture of foamed products useful for floor covering, for artificial leather and tapestry. A typical plastisol prepared by mixing at room temperature 100 weight parts of PVC (a mixture of Vestolit P 1352K and Vinnolit C65V), .40 weight parts of diisononyl ester of 1,2-benzenedicarboxylic acid (Vestinol 9), 17 weight parts of isononyl benzoate (prepared by reacting benzoic acid with isonanol in the presence of Bu titanate as a catalyst), 4 weight parts of blowing agent (Porofor ADC/L-C2), 5 weight parts of TiO <sub>2</sub> , 10 weight parts of a chalk and 1.5 weight parts of Bayoxide Z exhibits viscosity 2.7 Pa s at room temperature compared to 3.9 Pa s for the same plastisol containing only diisononyl ester of 1,2-benzenedicarboxylic acid as a plasticizer.				
IT 835614-42-1	RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)			
	(plasticizer; alkyl benzoates (especially, isononyl benzoate) are used as plasticizers together with other plasticizers for Cl-containing polymers in manufacture of foamed products)			
RN 835614-42-1	CAPLUS			
CN Benzoic acid, isononyl ester (CA INDEX NAME)				



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT